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Attorney Docket No.: 022001-000842US Client Reference No.: P019C2

TOWNSEND and TOWNSEND and CREW LLP

By: Tiffany Wu

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

YULUN WANG ET AL.

Application No.: 10/737,195

Filed: December 15, 2003

For: A MEDICAL ROBOTIC ARM THAT IS ATTACHED TO AN

OPERATING TABLE

Examiner: Unassigned

Art Unit: 3739

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR §1.97 and

§1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references, can be found in Application No. 08/873,190, filed June 11, 1997 (Attorney Docket No. 022001-000841US).

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

YULUN WANG ET AL. Application No.: 10/339,077

Page 2

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Mark D. Barrish Reg. No. 36,443

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834

Tel: 650-326-2400 Fax: 650-326-2422

MDB:rlj 60330045 v1

PTO/SB/08A (08-03) Substitute for form 1449A/PTO Complete if Known PATE TRACES **Application Number** 10/339,077 INFORMATION DISCLOSURE Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN Art Unit 3739 (use as many sheets as necessary) Leubecker, John P. **Examiner Name** Sheet of 8 Attorney Docket Number 022001-000842US

		Document Number				
Examiner Initials*	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY		Patentee or ited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	977,825	12-06-1910	Mur	phy	
	AB	3,171,549	03-02-1965	Orl	loff	
	AC	3,280,991	10-25-1966	Meltor	n et al.	
	AD	4,058,001	11-15-1977	Wax	man	
	AE	4,128,880	12-05-1978	Cray	/, Jr.	
	AF	4,221,997	09-09-1980	Flem	ming	
	AG	4,401,852	08-30-1983	Noso	et al.	
	AH	4,456,961	06-26-1984	Price	et al.	
	Al	4,460,302	07-17-1984	Morea	u et al.	
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	AM	4,517,963	05-21-1985	Mic	hel	
	AN	4,523,884	06-18-1985	Clemei	nt et al.	
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	AV	4,655,257	04-07-1987	Iwas		
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	AX	4,676,243	06-30-1987	Clay		
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	BA	4,791,934	12-20-1988		nnett	
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	BC	4,794,912	01-03-1989		ia	10.00
	BD	4,815,006	03-21-1989	Anderss		
	BE	4,815,450	03-28-1989		itel	
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	BG	4,860,215	08-22-1989		raji	
	BH	4,863,133	09-05-1989		inell	
	BI	4,883,400	11-28-1989	Kubar		· · · · · · · · · · · · · · · · · · ·
	BJ	4,930,494	06-05-1990		na et al.	
	BK	4,945,479	07-31-1990		olz et al.	
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	BN	4,969,709	11-13-1990		a et al.	
	BO	4,969,890	11-13-1990		a et al.	
Francis :	1	4,000,000	17 10 1000	T	1	
Examiner Signature				Date Considered		

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Applicant is to place a check mark here if English language Translation is attached. 60330045 v1

PTO/SB/08A (08-03) Substitute for form 1449A/PTO Complete if Known 10/339,077 **Application Number** INFORMATION DISCLOSURE Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN Art Unit 3739 (use as many sheets as necessary) **Examiner Name** Leubecker, John P. 022001-000842US Sheet 8 Attorney Docket Number

			U.S. PATENT DO	CUMENTS+			
Examiner	Cite	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY		ratentee or ited Document	Pages, Columns, Lines, Where	
Initials*	No.1	Number Kind Code (ii known)	MNI-DD-TTTT	Applicant of Ci	ned Document	Relevant Passages or Relevant Figures Appear	
	BP	4,979,933	12-25-1990	Rur	nge		
	BQ	4,989,253	01-29-1991	Liang	et al.		
	BR	4,996,975	03-05-1991	Naka	mura		
	BS	5,019,968	05-28-1991	Wang	et al.		
	ВТ	5,020,001	05-28-1991		oto et al.		
	BU	5,065,741	11-19-1991	Uchiyan	na et al.		
	ВV	5,078,140	01-07-1992	Kw	oh		
	BW	5,086,401	02-04-1992	Glassm	an et al.		
	вх	5,091,656	02-25-1992	Ga	ihn		
	CA	5,097,829	03-24-1992	Quise	nberry		
	СВ	5,097,839	03-24-1992		en		
	CC	5,098,426	03-24-1992	Sklar	et al.		
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	DF_	5,303,148	04-12-1994	Mattso	n et al.		
Examiner Signature				Date Considered			

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Signature

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 8

Complete if Known						
Application Number	10/339,077					
Filing Date	January 7, 2003					
First Named Inventor	WANG, YULUN					
Art Unit	3739					
Examiner Name	Leubecker, John P.					
Attorney Docket Number	022001-000842US					

		Document Number			
Examiner Initials*	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	DG	5,304,185	04-19-1994	Taylor	
	DH	5,305,203	04-19-1994	Raab	
	D	5,305,427	04-19-1994	Nagata	
	Ы	5,309,717	05-10-1994	Minch	
	DK	5,313,306	05-17-1994	Kuban et al.	
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•••	DZ	5,410,638	04-25-1995	Colgate et al.	
	EA	5,417,210	05-23-1995	Funda et al.	
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	EI	5,455,766	10-03-1995	Scheller et al.	
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Considered

PTO/SB/08A (08-03) Substitute for form 1449A/PTO Complete if Known **Application Number** 10/339,077 INFORMATION DISCLOSURE Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN Art Unit 3739 (use as many sheets as necessary) **Examiner Name** Leubecker, John P. Sheet of 8 022001-000842US Attorney Docket Number

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	ΕV	5,630,431	05-20-1997	Taylor	
	EW	5,631,973	05-20-1997	Green	
	EX	5,636,259	06-03-1997	Khutoryansky et al.	
	ΕY	5,657,429	08-12-1997	Wang et al.	
	EZ	5,658,250	08-19-1997	Blomquist et al.	
	FA	5,676,673	10-14-1997	Ferre et al.	
	FB	5,695,500	12-09-1997	Taylor et al.	
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	FD	5,696,837	12-09-1997	Green	_
	FE	5,718,038	02-17-1998	Takiar et al.	
	FF	5,737,711	04-07-1998	Abe	
	FG	5,749,362	05-12-1998	Funda et al.	
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	FI	5,776,126	07-7-1998	Wilk et al.	
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	GA	5,882,206	03-16-1999	Gillio	
	GB	5,887,121	03-23-1999	Funda et al.	
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	Cite No. ¹	Country Code ³	Number ⁴	Kind Code ⁶ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T€
	GF	EP	A-0494943		Aug., 1995			
	GG	wo	91/04711		04-18-1991			
	GH	wo	92/20295		11-26-1992	- w		

Examiner Signature	Date Considered		

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PTO/SB/08A (08-03) titute for form 1449A/PTO Complete if Known **Application Number** 10/339,077 **INFORMATION DISCLOSURE** Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN Art Unit 3739 (use as many sheets as necessary) **Examiner Name** Leubecker, John P. Sheet of 8 **Attorney Docket Number** 022001-000842US

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	0.1-		Foreign Patent Do	ocument		Name of Patentee or	Pages, Columns, Lines,		
	Cite No. ¹	Country Code ³	Number⁴	Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶	
	GI	wo	93/13916		07-22-1993				
	GJ	wo	94/18881		09-01-1994				
	GK	wo	94/26167		11-24-1994				
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	GM	wo	98/25666		06-18-1998				
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Examiner Signature	Date Considered	

ubstitute for form 1449B/PTO Complete if Known 10/339,077 Application Number INFORMATION DISCLOSURE Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN 3739 Art Unit (use as many sheets as necessary) Leubecker, John P. Examiner Name Sheet 6 Attorney Docket Number 022001-000842US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	GN	ABSTRACT of a presentation "3-D Vision Technology Applied to Advanced Minimally Invasive Surgery Systems" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, (18 to 20 June 1992), entitled "Session 15/3" (1 page total).	
	GO	ABSTRACT of a presentation "A Pneumatic Controlled Sewing Device for Endoscopic Application the MIS Sewing Instrument MSI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	GP	ABSTRACT of a presentation "Concept and Experimental Application of a Surgical Robotic System the Steerable MIS Instrument SMI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	GQ	ABSTRACT of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/2" (1 page total).	
-	GR	ABSTRACT of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/5" (1 page total).	
	GS	ABSTRACT of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/4" (1 page total).	
	GT	ABSTRACT of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, (18 to 20 June 1992), entitled "Session 15/1" (1 page total).	
-	GU	BEJCZY, "Controlling Remote Manipulators through Kinesthetic Coupling," Computers in Mechanical Engineering 1983, pp. 48-60.	
	НА	BESANT et al., Abstract of a presentation "Camera Control for Laparoscopic Surgery by Speech-Recognizing Robot: Constant Attention and Better Use of Personnel," given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	нв	CHARLES et al., "Design of a Surgeon-Machine Interface for Teleoperated Microsurgery," IEEE 1989 (3 pages total).	
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	нр	CORCORAN, "Robots for the Operating Room," The New York Times, Sunday July 19, 1992, Section 3, Page 9, Column 1 (2 pages total).	
-	HE	DAS et al., "Kinematic Control and Visual Display of Redundant Teleoperators," IEEE 1989 pp. 1072-1077.	
	HF	DOLAN et al., "A Robot in an Operating Room: A Bull in a China Shop," IEEE, 1987, pp. 1096-1097.	
	НG	GAYED et al., "An Advanced Control Micromanipulator for Surgical Applications," Systems Science Vol. 13, 1987, pp. 23-34.	

Examiner	Date	
Signature	Considered	

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stitute for form 1449B/PTO **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT (use as many sheets as necessary)

Sheet

Complete if Known					
Application Number	10/339,077				
Filing Date	January 7, 2003				
First Named Inventor	WANG, YULUN				
Art Unit	3739				
Examiner Name	Leubecker, John P.				
Attorney Docket Number	022001-000842US				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т;
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	ну	GREEN, Statutory Declaration of Dr. Philip S. Green, presenter of the video entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine" (32 page total).	
-	нк	GUERROUAD et al., "S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery," IEEE, 1989, pp. 879-880.	
	HL	Inoue, "Force Feedback-Based Telemicromanipulation for Robot Surgery on Soft Tissues" (A.M. Inoue), IEEE 1989.	
	нм	INQUE et al., "Six-axis Bilateral Control of an Articulated Slave Manipulator Using a Cartesian Master Manipulator," Advanced Robotics, 4, No. 2, 1990, pp. 139-150.	
•	ни	KAZEROONI, "Human/Robot Interaction via the Transfer of Power and Information Signals - Part I: Dynamics and Control Analysis," IEEE, 1989, pp. 1632-1640.	
	но	KAZEROONI, "Human/Robot Interaction via the Transfer of Power and Information Signals - Part II: An Experimental Analysis," IEEE, 1989, pp. 1641-1647.	
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	HQ	LAVALLEE, "A New System for Computer Assisted Neurosurgery," IEEE, 1989, vol.11, pp. 926-927.	
	HR	MAIR, Industrial Robotics, Prentice Hall, 1988, pp. 41-43, 49-50, 54, 203-209.	
	нѕ	MAJIMA et al., "On a Micro-Manipulator for Medical Application - Stability Consideration of its Bilateral Controller," Mechatronics, 1991, pp. 293-309.	
	нт	NASA, "Anthropomorphic Remote Manipulator", NASA Tech Briefs, 1991 (1 page total).	
	HU	PREISING et al., "A Literature Review: Robots in Medicine," IEEE, June 1991, pp. 13-22 & 71.	
	HV	TAUBES, "Surgery in Cyberspace," Discover Magazine, December 1994, pp. 85-92.	
	нw	TAYLOR et al., "Taming the Bull: Safety in a Precise Surgical Robot," IEEE, 1991, pp. 865-871.	

Examiner	Date	· ·
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (08-03) Substitute for form 1449B/PTO Complete if Known 10/339,077 Application Number TNFORMATION DISCLOSURE Filing Date January 7, 2003 STATEMENT BY APPLICANT First Named Inventor WANG, YULUN 3739 Art Unit (use as many sheets as necessary) Examiner Name Leubecker, John P. Sheet Attorney Docket Number 022001-000842US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τʻ
	нх	TEJIMA, "A New Microsurgical Robot System for Corneal Transplantation," Precision Machinery, 1988 vol. 2, pp. 1-9.	
	нү	TENDICK et al., "Analysis of the Surgeon's Grasp for Telerobotic Surgical Manipulation," IEEE, 1989, pp. 914-915.	
	HZ	THRING, "Robots and Telechirs: Manipulator with Memory: Remote Manipulators: Machine Limbs for the Handicapped," Wiley & Sons, 1983 (26 pages total).	
	IA	Transcript of a video presented by SRI at the 3rd World Congress of Endoscopic Surgery in Bordeaux on June 18-20, 1992, in Washington on April 9, 1992, and in San Diego, CA on June 4-7, 1992 entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine" (3 pages total).	
	IB	TREVELYAN et al., "Motion Control for a Sheep Shearing Robot," Proceedings of the 1st International Symposium on Robotics Research, MIT, Cambridge, Massachusetts, USA, 1983, pp.175-190.	
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Examiner	Date	
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PTO/SB/21	(04-04)
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Ether	Application Number	10/339,077
TRANSMITTAL	Filing Date	January 7, 2003
FORM	First Named Inventor	WANG, YULUN
(to be used for all correspondence after initial filing)	Art Unit	3739
	Examiner Name	Leubecker, John P.
Total Number of Pages in This Submission	Attorney Docket Number	022001-000842US

ENCLOSURES (Check all that apply)						
	Fee Transmittal	Form	Drawing(s)	After Allowance Communication to Technology Center (TC)		
	Fee Atta	ached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences		
Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application		nal ts/declaration(s) ne Request comment Request closure Statement of Priority ssing Parts/	Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addre Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks The Commissioner is at Account 20-1430.	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below): Return Postcard PTO Form SB/08A and SB/08B		
under 37 CFR 1.52 or 1.53		7 CFR 1.52 or 1.53				
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Firm	To		send and Crew LLP			
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Date	Date (D/13/54					
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